

WITNESS MONUMENT TIES

All ties to new Bearing Trees (BTs) are a mag nail set in a hack mark at the root crown (less than 12" above ground) perpendicular to the center of the tree, unless otherwise noted. BT diameters are noted as dbh and are measured approximately 4.5' above ground. Bearings are measured from the monument to the center of the BT, distances are measured from the monument to the mag nail.

ID	BEARING	DISTANCE	DESCRIPTION
Witness A	N 81d E	11.6'	Mag nail set 0.6' above grade on the north side of a leaning 8" x 6" wooden corner post with a Monroe County Surveyor Marker sign attached 4.3' above grade on the west side of the post.
Witness B	S 21d E	28.6'	Mag nail and shiner set 1.1' above grade on the west side of a 22" dbh smooth-barked hickory
Witness C	S 90d E	27.5'	Mag nail and shiner set 1.0' above grade on the north side of the 10" dbh north stalk of a bifurcated smooth-barked hickory (the south stalk has a 13" dbh).
Witness D	N 86d W	67.2'	Mag nail and shiner set 1.0' above grade on the north side of 9" dbh honey locust

NOTES:

- Field work was performed on September 19, 2016 and December 13, 2017.
- Monroe County Surveyor's Field Book 48, pages 11-12 and Field Book 51, page 14.
- Project Name: Richland2016, Field work by: RSO, ERS & TER, Drawn by: RSO, Reviewed by: RSO, TER & SRB.
- The basis of bearings is Grid North NAD83(2011), Indiana West Zone, Epoch 2010.0000, Geoid Model G2012BU7, Datum NAD83_NO_TRANS, US Survey Feet, derived from GPS observations utilizing the Indiana Real-Time Network (INCORS). Distances obtained with GPS have not been adjusted to ground. Coordinate data was collected with a Topcon Network Rover (PG-A1 antenna and GRS-1 data collector) and a Javad Triumph LS Network Rover.
- Distances to witness ties were collected with a 100' cloth tape. Bearings to witness ties were collected with the internal magnetic compass of the Javad Triumph LS and were automatically adjusted to grid north.
- Vicinity sketch was compiled per 2017 aerial photography.
- This document is not complete without the associated plat and report of survey for Section 24-T09N-R02W by Rachel Oser, of the Monroe County Surveyor's Office, dated December 20, 2017 and recorded as Instrument Number 2017017533 in the Monroe County Recorder's Office.

OTHER ACCESSORIES:

Work done to preserve existing monument.

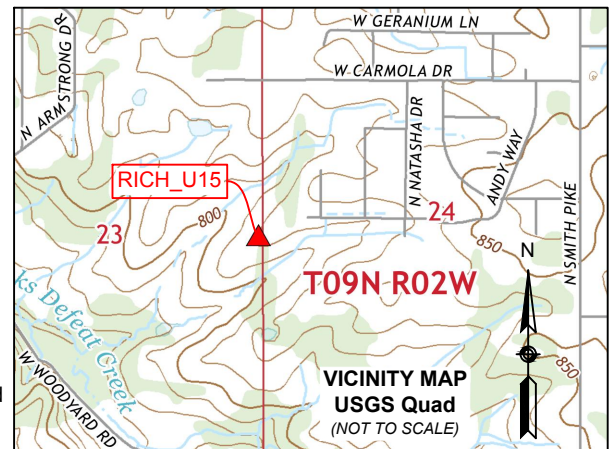
A Monroe County Surveyor Marker sign was attached 4.3' above grade on the west side of the wooden corner post described as Witness Monument Tie A.

VICINITY DESCRIPTION: Corner location relative to nearby features and how to reach the corner - note fences, roads, timber, streams, topo changes, etc.

The corner is in an open pasture, approximately 11' west of the northwest corner of an established fenceline to the south and east, approximately 330' west of the dead-end of Andy Way.

ORIGIN: This monument was set at the record distance west (330 feet) of the stone found at RICH_U15-.25, on the extension of the line formed between the stone found at RICH_Y15 and the stone found at RICH_U15-.25.

PERPETUATION: The theoretical location of this corner was accepted by the Monroe County Surveyor Review Board on November 21, 2017. The monument was set and witnessed on December 13, 2017.

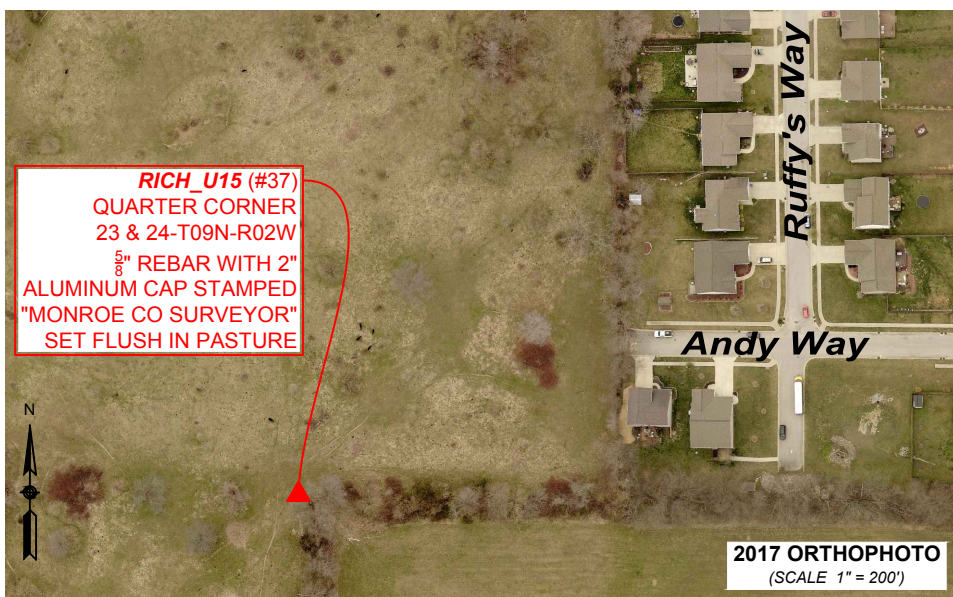


▲ **Monument Description:** A $\frac{5}{8}$ " rebar with 2" aluminum Berntsen cap stamped "MONROE CO SURVEYOR" set flush

State Plane Grid Coordinates: Point No.:37 Northing: 1440052.9', Easting: 3091810.9'

SHEET 1 OF 2	MONUMENT RECORD CORNER ID: RICH_U15	Quarter Corner Section 23 & 24- T09N-R02W Richland Township Monroe County, Indiana	 OFFICE OF THE MONROE COUNTY SURVEYOR Trohn Enright-Randolph Monroe County Surveyor Rachel Savich Oser Professional Surveyor 119 West 7th Street, Bloomington, IN 47404 (812) 349-2570
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Photos were taken on 12/13/2017 with an iPhone 6s



SUPPORTING EVIDENCE, OBSERVATIONS, AND SEARCH PROCEDURE: Evidence of use and occupation such as roads, fences, clearings, timber cutting lines, mow lines, plantings, etc. Site source of any testimony.

This corner was perpetuated in May of 1884 by the Monroe County Surveyor, M. Buskirk (Monroe County Survey Book 2, page 401). Stones were found at four of the seventeen corners established by the 1884 Buskirk survey. The four stones found are all along the east/west quarter section line, and they measure within less than a tenth of a foot north/south of the line formed between RICH_U15-.25 and RICH_Y15. The difference in east/west measured vs. record distances between the found stones ranges from 1.04 feet to 2.69 feet.

In 1884, Buskirk also established a corner 1200.375' south of the West 1/4 Corner of Section 24. I calculated a point at that distance south of RICH_U15 and looked for a stone (cleared brush and probed). There is a north/south farm fence approximately 9.5' west of the west line of the SW1/4 of Section 24. My search area for the stone extended from the fence approximately 24' east into the pasture. There is a distinct depression along the east side of the fence, which I assume is evidence of an old road. The ground was very hard, and I worry that my probing depths were inconsistent.

I spoke with the property owner (the Hayes family owns parcels in the E1/2 of Section 23 and the W1/2 of Section 24), who told me that his family had owned the farm surrounding this corner since the 1950s. He said that his father told him that an old road used to run north/south along the east side of the fence in the southwest quarter of Section 24. He also said that it has always been his practice (and was his father's before him) to rebuild fences without changing their location. A road is shown along this line on a circa 1920 cadastral map. Cadastral maps from 1856 and 1932 do not depict a road in this location.

N 82°15'32"E 11.22 feet from the calculated position of RICH_U15, there is a 6"x8" wooden fence post with farm fence to the south and east. The grade of the pasture area to the north and west of the fence is significantly lower than the grade within the fenced area. A flat rock was found at the north base of the fence post. It was not planted in the ground, and it is not similar to other stones recovered from the 1884 survey. The flat rock was accepted by Doug Curry on a 2012 boundary survey in Section 23-T9N-R2W (Survey Cabinet S2, envelope 62) as the best evidence of the corner. It is my opinion that the fences along the west line of the SW1/4 of Section 24 are not the best evidence of the section line because they were most likely offset to accommodate the old road. I thoroughly probed a 6' wide area from the fence post extending about 15' west into the pasture. I dug up quite a few rocks, but I did not find a stone. I piled all of the rocks at the base of the fence post.




Trohn Enright-Randolph
Trohn Enright-Randolph
Monroe County Surveyor



Accepted by the Monroe
County Surveyor Review Board
on November 21, 2017



Rachel Oser
Rachel Savich Oser, State of Indiana
Professional Surveyor No. 21100022

SHEET 2 OF 2	MONUMENT RECORD CORNER ID: RICH_U15	Quarter Corner Section 23 & 24- T09N-R02W Richland Township Monroe County, Indiana	 OFFICE OF THE MONROE COUNTY SURVEYOR Trohn Enright-Randolph Monroe County Surveyor Rachel Savich Oser Professional Surveyor 119 West 7th Street, Bloomington, IN 47404 (812) 349-2570
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